

BUILDING PRODUCTS LISTING PROGRAM

Customer: **International Fireproof Technology Inc (IFTI)**

Class: Applied Fireproofing
Location: Irvine, CA
Website: www.painttoprotect.com

Listing No. B1117-1
Project No. B1117-1, Edition 1
Effective Date: Aug 14, 2018
Last Revised Aug 14, 2018
Date:
Expires: <N/A>

Standards: ASTM E84 "Standard Test Method for Surface Burning Characteristics of Building Materials".

ASTM E84 "Standard Test Method for Surface Burning Characteristics of Building Materials", extended 20 minutes.

ASTM E2768 "Extended Duration Surface Burning Characteristics of Building Materials (30 Min Tunnel Test) ".

ASTM E119 "Standard Test Method for Fire Tests of Building Construction and Materials".

Product: DC5040 Water Based Intumescent Coating.

Description DC5040 is a water based thin film intumescent coating used to provide fire resistance to engineered wood framing members such as I-Joists.

Markings: Product is marked with labels or stamp supplied by IFTI to each container. The markings include:

- Manufacturer's name, trademark, or other recognized symbol of identification
- Product model designation
- QAI File Number B1117
- Date of manufacture or date code on the label or stamp
- Flame Spread Index / Smoke Developed Index Rating
- QAI logo shown here:



Models / Ratings: The following outlines DC5040 Spray Applied Fire Resistive Coating.

Test results determined in accordance with the noted standards: ASTM E84, ASTM E84, extended 20 mins (ASTM E2768) and ASTM E119 are outlined below.

Uses: In field application to installed Engineered wood framing members such as Wood I-Joist to improve fire resistance properties. DC 5040 shall be applied prior to installation of mechanical, electrical and plumbing components to ensure full coverage of the I-Joists. To only be applied and used in weather protected locations where substrate moisture content is below 18%. DC 5040 comes as a ready to use coating and must be thoroughly mixed before use. It can be applied with brush, roller or airless Sprayer. The wet mil thickness should be checked to during installation to ensure uniform, minimum noted thickness are maintained.

Design, Installation & conditions of Use Manufactures Approved Design and Installation Documents.

Standard	Ratings	Limitations
ASTM E84	FSI <= 25 SDI <= 50	DC5040 applied at (min. 24 wet mils)
ASTM E84 Extended 20 minutes (ASTM E2768)	FSI <= 25 SDI <= 50	DC5040 applied at (min. 24 wet mils)
ASTM E119	Equivalent to solid sawn 2 x 10 Joists per IRC 2015, R302.13 Exception 4 and IRC 2012 Sec R501.3 Exception 4	DC5040 applied at (min. 26 wet mils) see details below

Notes

- 1) DC5040 has also been evaluated to and complies with IAPMO EC-017 Evaluation Criteria for Field Applied Fire Protective Coatings.

ASTM E119 Fire Resistant I-joist Floor Assembly Details:

1. I-Joists - Approved I-Joist installed per manufacturers recommendations and approval agencies listings, minimum - 9.5 in (241mm) depth I-Joist, manufactured with LVL chords (1-1/8 in. high by 1-3/4 in. wide) or Solid Sawn chords (1.5 in. x 2.5 in.) and a 3/8 in. thick OSB web); spaced (max) 24 in. cc (on-center). Adhesives used must meet ASTM D7247.
2. Subfloor Adhesive - OSI SF450 heavy-duty construction and subfloor adhesive or equivalent applied on the top chord of each I-Joist (prior to

installing the OSB subfloor) in a 1/4 in. bead in a zig-zag pattern and to the tongue-and-groove seams between sheets of the Subfloor Sheathing.

3. Subfloor Sheathing — One (1) layer of 23/32 in. thick, OSB tongue-and-groove sub-floor, secured using 8d 2-1/2 in. long nails spaced 12 in. oc in conjunction with the Subfloor Adhesive.
4. Fire Coating —IFTI DC5040 fire coating spray applied at an average minimum thickness of 26 mils, wet film, to the entire surface of the I-Joist web and flange per manufacturer's instructions. DC 5040 shall be applied prior to installation of mechanical, electrical and plumbing components to insure full coverage of the I-Joists.

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